

Title (en)
CONTINUOUS, CARBOHYDRATE TO ETHYLENE GLYCOL PROCESSES

Title (de)
KONTINUIERLICHES KOHLEHYDRAT-ZU-ÄTHYLENGLYKOLVERFAHREN

Title (fr)
TRANSFORMATIONS CONTINUES DE GLUCIDE EN ÉTHYLÈNE GLYCOL

Publication
EP 4034298 A1 20220803 (EN)

Application
EP 20867138 A 20200924

Priority
• US 201962905068 P 20190924
• US 2020052519 W 20200924

Abstract (en)
[origin: US2021087127A1] Control methods are disclosed for continuous, unmodulated, multiple catalytic conversion step processes using at least two catalysts, a first catalyst and a second catalyst, that accommodate changes in the performance of each catalyst and the relative performances of the catalysts. In the methods, certain process parameters are used in a manner that is indicative of changes in catalyst performance, and the control methods provide for adjustment of at least one of: the absolute amount of catalytically active species and relative amounts of each of the first catalyst and second catalyst and at least one of the rate of feed or concentration of the raw material to the reaction zone.

IPC 8 full level
B01J 23/652 (2006.01); **C07C 29/132** (2006.01); **C07C 29/74** (2006.01)

CPC (source: EP KR US)
B01J 8/001 (2013.01 - EP); **B01J 19/0033** (2013.01 - KR US); **B01J 19/004** (2013.01 - KR US); **B01J 19/245** (2013.01 - KR US); **B01J 23/30** (2013.01 - KR US); **C07C 29/132** (2013.01 - US); **C07C 29/141** (2013.01 - EP KR); **C07C 29/145** (2013.01 - EP KR); **C07C 29/172** (2013.01 - US); **C07C 31/202** (2013.01 - KR); **C07C 31/205** (2013.01 - KR); **B01J 2219/00033** (2013.01 - KR US); **B01J 2219/0004** (2013.01 - KR US); **B01J 2219/00243** (2013.01 - KR US); **B01J 2523/69** (2013.01 - KR US); **C07C 31/202** (2013.01 - US); **Y02P 20/52** (2015.11 - EP)

C-Set (source: EP)
1. **C07C 29/141 + C07C 31/202**
2. **C07C 29/141 + C07C 31/205**
3. **C07C 29/145 + C07C 31/202**
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Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
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DOCDB simple family (publication)
US 11919840 B2 20240305; US 2021087127 A1 20210325; AU 2020353077 A1 20220414; AU 2020356546 A1 20220407; BR 112022005588 A2 20220621; BR 112022005612 A2 20220719; CA 3154686 A1 20210401; CA 3155648 A1 20210401; CN 114630817 A 20220614; CN 114650879 A 20220621; EP 4034298 A1 20220803; EP 4034298 A4 20240313; EP 4034524 A1 20220803; EP 4034524 A4 20230531; JP 2022548327 A 20221117; JP 2022548790 A 20221121; KR 20220068231 A 20220525; KR 20220069975 A 20220527; US 11319268 B2 20220503; US 12077489 B2 20240903; US 2021087125 A1 20210325; US 2023091978 A1 20230323; WO 2021061969 A1 20210401; WO 2021062008 A1 20210401

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US 202017031009 A 20200924; AU 2020353077 A 20200924; AU 2020356546 A 20200924; BR 112022005588 A 20200924; BR 112022005612 A 20200924; CA 3154686 A 20200924; CA 3155648 A 20200924; CN 202080066801 A 20200924; CN 202080074192 A 20200924; EP 20867138 A 20200924; EP 20870064 A 20200924; JP 2022518703 A 20200924; JP 2022518711 A 20200924; KR 20227012155 A 20200924; KR 20227013085 A 20200924; US 2020052474 W 20200924; US 2020052519 W 20200924; US 202017031280 A 20200924; US 202217735813 A 20220503